

## UTILITY PATENT APPLICATION TRANSMITTAL

## MAIL STOP PATENT APPLICATION

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450Customer No. 23696  
Attorney Docket No.: 020611  
Date: August 18, 2003  
Express Mail Label No.: EV 339 075 060 US

Dear Sir:

Transmitted herewith for filing is the patent application of:

Inventor(s): Farrokh Abrishamkar, Kartick Ariyur and Ken Delgado-KreutzFor: PILOT ESTIMATION USING PREDICTION ERROR METHOD-SWITCHED FILTERS.

Enclosed are:

1. ☒ Patent application (22) total pages.
2. ☒ Drawings: ☒ Formal (7) sheet(s) or ☐ Informal ( ) sheet(s).
3. ☐ Declaration/Power of Attorney: ☐ Signed ☐ Unsigned
4. ☒ This application claims priority from Application Serial No. 60/454,378, Filed March 12, 2003, Status Pending.
5. ☐ An Assignment ( ) pages and Recordation Form Cover Sheet.
6. ☐ A Preliminary Amendment ( ) pages.
7. ☐ Information Disclosure Statement (IDS):
  - a. ☐ PTO-1449
  - b. ☐ Copies of IDS Citations (number of citations: )
8. ☐ Other:

| CLAIMS:   | (a) Filed | (b) Extra Claims | Large Entity Fee | Fee Paid |
|---|-----------|------------------|------------------|----------|
| Total*  | 22 - 20   | 2                | x \$18 =         | \$36.00  |
| Independent**   | 3 - 3     | 0                | x \$84 =         | \$0      |
| Multiple Dependent Claim(s): <input type="checkbox"/> No <input type="checkbox"/> Yes |           |                  | \$280            | \$       |
| APPLICATION FILING FEE  |           |                  | \$750            | \$       |
|   |           |                  | TOTAL FEE        | \$750.00 |

\*If the number in column a is less than 20, enter 0 in column b.

\*\*If the number in column b is less than 3, enter 0 in column b.

9. ☐ A check in the amount of \$\_\_\_\_\_ is enclosed to pay the filing fee.
10. ☒ Please charge Deposit Account No. 17-0026 of QUALCOMM Incorporated the amount of \$750.00. The Commissioner is hereby authorized to charge payment of any additional fees which may be required, or credit any overpayment, to said Deposit Account No. 17-0026. A duplicate of this sheet is enclosed for fee processing.
11. ☒ The Commissioner is further hereby authorized to charge to said Deposit Account No. 17-0026, pursuant to 37 CFR 1.25(b), any fee whatsoever which may become properly due or payable, as set forth in 37 CFR 1.16 to 37 CFR 1.18 inclusive, for the entire pendency of this application without specific additional authorization.

Date: August 18, 2003Signature: Nicholas J. PauleyNicholas J. Pauley, Reg. No. 44,999  
(858) 845-8405CORRESPONDENCE ADDRESS

Send correspondence to Customer No. 23696 at the following address:

QUALCOMM Incorporated  
Attn: Patent Department  
5775 Morehouse Drive  
San Diego, California 92121-1714  
Telephone: (858) 658-5787  
Facsimile: (858) 658-2502